

Abstract

The invention relates to a multi-stage pusher centrifuge (1) for the separation of a mixture (2) into a solid cake (3) and into a liquid phase (4). The multi-stage pusher centrifuge (1) includes an outer screen drum (6) rotatable about an axis of rotation (5) and at least one screen stage (7) arranged in the outer screen drum (6), a mixture distributor (8) arranged in the screen drum (6) with a pusher base apparatus (9), with either the screen stage (7) or the pusher base apparatus (9) being arranged movably to and fro along the axis of rotation (5) such that the solid cake (3) is displaceable by means of the pusher base apparatus (9). The multi-stage centrifuge further includes an infeed device (10) with which the mixture (2) can be introduced via the mixture distributor (8) into an empty space (11) which arises on the displacement of the solid cake (3) by the pusher base apparatus (9), with the pusher base apparatus (9) including a pre-acceleration funnel (12) which extends in a substantially divergent manner in the direction towards the infeed device (10) and the pre-acceleration funnel (12) being designed as a pre-acceleration screen (12).

(Fig. 1)

Inventors: REINACH, Harald, Dr. Ing.

GEIGER, Roy